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J1054 U.S. PTO

PATENT APPLICATION TRANSMITTAL LETTER

Docket Number (Optional)

J1054 U.S. PTO

09/08/2026



06/16/01

To the Commissioner of Patents and Trademarks:

Transmitted herewith for filing under 35 U.S.C. 111 and 37 CFR 1.53 is the patent application of

Che-Chih Tsao

entitled Pattern Projection Techniques for Volumetric 3D Displays and 2D Displays

Enclosed are:

- ☒ 24 pages of written description, claims and abstract.
- ☒ 12 sheets of drawings.
- ☐ an assignment of the invention to _____
- ☒ executed declaration of the inventors.
- ☐ a certified copy of a _____ application.
- ☐ associate power of attorney.
- ☒ a verified statement to establish small entity status under 37 CFR 1.9 and 1.27.
- ☐ information disclosure statement
- ☐ preliminary amendment
- ☒ other: disclosure document reference letter

CLAIMS AS FILED

	NUMBER FILED	NUMBER EXTRA	RATE	FEE
BASIC FEE			\$730	\$730
TOTAL CLAIMS	18 - 20 =	* 0	x \$22	0
INDEPENDENT CLAIMS	3 - 3 =	* 0	x \$76	0
MULTIPLE DEPENDENT CLAIM PRESENT			\$240	0
NUMBER EXTRA MUST BE ZERO OR LARGER			TOTAL	\$ 690
If applicant has small entity status under 37 CFR 1.9 and 1.27, then divide total fee by 2, and enter amount here.			SMALL ENTITY TOTAL	\$ 345

- ☒ A check in the amount of \$ 345 to cover the filing fee is enclosed. CK#1269
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. I have enclosed a duplicate copy of this sheet.
 - ☐ Charge the amount of \$ _____ as filing fee.
 - ☐ Credit any overpayment.
 - ☐ Charge any additional filing fees required under 37 CFR 1.16 and 1.17.
 - ☐ Charge the issue fee set in 37 CFR 1.18 at the mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).

June 16, 2001
Date

[Signature]
Signature
Che-Chih Tsao
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In the United States Patent and Trademark Office

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05/16/01

Serial Number:
Appn. Filed:
Applicant(s): Che-Chih Tsao
Appn. Title: Pattern Projection Techniques for Volumetric 3D Displays and 2D Displays
Examiner:
Group Art Unit:

Mailed: _June 16, 2001 USPS Express Mail _

At: _Arlington MA_

Disclosure Document Reference Letter

Date: 6/16/1997

Commissioner of Patents and Trademarks
Washington, District of Columbia 20231

Sir:

Disclosure documents as identified below were previously filed in the Patent and Trademark Office. As these disclosures relate to the above patent application, applicant(s) request that these Disclosure Documents be retained and referenced to the above application.

Disclosure Document Title: Volumetric Pointing and Display system for complex 3D interactions and for computer aided design engineering

Disclosure Document Number: 457938

Disclosure Document Filing Date: 990618

Disclosure Document Title: Software correction scheme to image position error for VID

Disclosure Document Number: 458009

Disclosure Document Filing Date: 990618

Disclosure Document Title: Methods and Apparatus of Image Projection for 3D Volumetric Displays

Disclosure Document Number: 461839

Disclosure Document Filing Date: 990909

Disclosure Document Title: Free-pixel projection Methods and Apparatus for 3D Volumetric Display and 2D Display

Disclosure Document Number: 461733

Disclosure Document Filing Date: 990908

Disclosure Document Title: Image Projection Method for Volumetric 3D Displays and 2D Displays
Disclosure Document Number: 462217
Disclosure Document Filing Date: 990915

Disclosure Document Title: Method and Apparatus for color and gray Volumetric 3D Display
Disclosure Document Number: 467804
Disclosure Document Filing Date: 000119

Disclosure Document Title: Vector Data Transfer Schemes for Volumetric 3D Display Data
Transfer and other Similar Data
Disclosure Document Number: 470603
Disclosure Document Filing Date: 000310

Disclosure Document Title: Illumination, Projection, and Screen Techniques for 3D volumetric
Display and 2D Displays
Disclosure Document Number: 478153
Disclosure Document Filing Date: 000808

Disclosure Document Title: Sub-panel Illumination and Merging for Volumetric 3D Displays and 2D
Displays
Disclosure Document Number: 491563
Disclosure Document Filing Date: 010404

Very Respectfully,



Che-Chih Tsao

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